

Applicant(s): Olivier Guaume, et al.
 Serial No.: 10/028,099
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 For: METHOD FOR OPTIMIZATION OF TEMPORAL PERFORMANCES WITH RAPID CONVERGENCE
 Art Unit: 2825
 Examiner: Thompson, Annette M.

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AMENDMENTS TO THE CLAIMS:

Please amend claims as follows:

1. (currently amended) A method for optimization of temporal performance of ~~an~~ a network of electronic cells, ~~comprising with a~~ comprising a plurality of cells ~~which that~~ which are taken from a library, ~~comprising~~ having several categories of cells, the cells of a same category all having the same functionality, which method comprises the following steps: [[

•]] accurate computation of propagation times of signals which pass through each cell of the network; and

[[

•]] identification of cells which have a ~~value of the~~ propagation time computed propagation time value greater than a predetermined reference value.

2. (currently amended) ~~-A-~~ The method for optimization as ~~claimed in of~~ claim 1, wherein a predetermined threshold value val_j is allocated to each cell of a rank, $rank_j$, of a same category, and wherein, when a cell of another rank, ~~$rank_i$~~ $rank_i$, identified must be replaced by a cell of a higher rank, ~~$rank_k$~~ $rank_k$, the value of ~~$rank_k$~~ $rank_k$ is at least equal to ~~$i+j$~~ $rank_i + rank_j$, if ~~the value of the~~ said computed propagation time value for said cell of ~~$rank_i$~~ $rank_i$ is greater than the predetermined threshold value val_j of the said cell of ~~$rank_j$~~ $rank_j$.

3. (currently amended) ~~-A-~~ The method for optimization as ~~claimed in of~~ claim 2, wherein, when a cell of ~~$rank_i$~~ $rank_i$ identified must be replaced by a cell of a higher rank, ~~$rank_k$~~ $rank_k$, the value of k

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rank_k is equal to the sum of rank_i and rank_j , ~~$i+j$~~ , if the value of the propagation time said computed propagation time value for said cell of rank i is within the predetermined threshold values val_j and val_{j+1} of the said cells of consecutive ranks, ~~j~~ rank_j and ~~$j+1$~~ rank_{j+1} .

4. (currently amended) ~~A~~ The method for optimization as claimed in of claim 1, wherein execution of the a replacement step is subject to validation by the a user of the said method.

5. (currently amended) An integrated circuit comprising a network of cells, the temporal performances of which have been optimized by ~~means of a method according to claim 1~~ accurate computation of propagation times of signals which pass through each cell of the network; and identification of cells which have a computed propagation time value greater than a predetermined reference value.

6. (currently amended) A receiver device for radio signals, comprising an integrated circuit ~~according to claim 5~~ having a network of cells, the temporal performances of which have been optimized by accurate computation of propagation times of signals which pass through each cell of the network; and identification of cells which have a computed propagation time value greater than a predetermined reference value.